

ONLINE SEARCH REQUEST FORM

USER M. ZmellSERIAL NUMBER 08/549,380ART UNIT 2304PHONE 305-9756DATE 12/10/96

Please give a detailed statement of requirements. Describe as specifically as possible the subject matter to be searched. Define any terms that may have special meaning. Give examples or relevant citations, authors, or keywords, if known.

You may include a copy of the broadest and or relevant claim(s).

Any information on automated dispatching products distributed by Software AG. Especially as it applies to dispatching ambulances, taxis, delivery vehicles, etc.

critical date: 10/27/95

see attached newspaper clipping which provides an internet address

<http://www.sagus.com>

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U.S. PAT. & TM. OFF.

STAFF USE ONLY

COMPLETED

12/11/96

SEARCHER

cw

ONLINE TIME

55

TOTAL TIME

70

(in minutes)

NO. OF DATABASES

39

SYSTEMS

☐ CAS ONLINE☐ DARC/QUESTEL☒ DIALOG☐ SDC☒ OTHER Internet

Solving Tomorrow's Information Needs Today



Understanding your business environment. Developing strategic, mission-critical information access and management solutions to keep you on the cutting edge. Helping protect today's technology investment by providing open solutions that are ready for tomorrow. Empowering your organization to meet business challenges, present and future.

That's SOFTWARE AG.

For Enterprise Empowerment: SOFTWARE AG.

Flexibility. Speed. Responsiveness. These are keywords for serious players in today's global business environment. As markets constantly expand and change and information technology steadily evolves, today's solutions may not be the best tomorrow. In this demanding climate, success comes only to those who respond fast those who are ready for whatever business and technological challenges the future brings.

In order to maintain their competitive edge, industry leaders worldwide have turned to SOFTWARE AG for over 26 years. The world's tenth largest independent supplier of information solutions with 1994 worldwide revenues of \$530 million, SOFTWARE AG's consistent history of profitable growth is a testament to the vision and expertise on which we have built and continue to expand our base of over 5,500 loyal customers. With over 2,800 highly qualified employees in 80 countries, SOFTWARE AG is strongly positioned to empower your organization by helping you:

- Develop enterprise-wide, mission-critical applications that make your information into a valuable, accessible decision-making resource;
- Protect your considerable investment in information technology by allowing development and deployment across multiple platforms;
- Create the solid foundation for current use and future-readiness.

For Industry-Leading Information Technology: SOFTWARE AG

SOFTWARE AG's industry-leading product lines support the rapid development and deployment of bet-your-business, mission-critical applications that support you in bringing new products and services to market faster and more cost-effectively.

Application Engineering

For dramatic productivity increases in software design, development, and deployment, SOFTWARE AG offers the NATURAL product family, a comprehensive client/server development environment. NATURAL supports rapid application development (RAD), computer-aided software engineering (CASE), and multiple third-party RDBMS environments with applications that are portable, scalable, and interoperable across multiple computing platforms.

Distributed Computing

The ENTIRE product family delivers middleware infrastructure for the distributed computing technology of SOFTWARE AG. With ENTIRE, users can start anywhere, build anywhere, deploy anywhere, and access data and applications transparently, from anywhere in the enterprise.

Database Management

We built our early reputation on database technology with our renowned ADABAS, now a family of servers and add-on technology that combine functionality and advanced, multi-platform data management capabilities.

Data Warehousing

SOFTWARE AG's flexible, integrated data warehouse tools make operational data truly accessible for analysis and decision support, transforming information into a competitive tool and creating an infrastructure that grows as requirements increase. The first end-to-end solution on the market, SOFTWARE AG's Data Warehouse application delivers productivity, performance, and protection to give you the edge on the competition.

End-User Access Tools

ESPERANT, SOFTWARE AG's award winning graphical query and reporting tool has the power to handle a wide range of business queries. The unique SQL expert technology ensures correct results every time, and the intuitive point-and-click interface guarantees ease of use.

For Award-Winning Services And Support: SOFTWARE AG

Winner of the STAR Award for quality service and support, SOFTWARE AG marries outstanding support and services with superior tools and technology to create total information solutions that are second to none.

Technical Support

SOFTWARE AG provides round-the clock support to help you maximize your use of increasingly complex information systems and tools. SOFTWARE AG expertise is just a phone call away, 24 hours a day, seven days a week.

Professional Services

We assist in application development, implementation, and conversion to build strategic applications tailored to work in your specialized environment.

Consulting Services

INSIGHT Consulting Inc., an independent management and technical consulting firm and a wholly owned subsidiary of SOFTWARE AG, works with organizations to help them align their technological investments with business goals.

Financial Services

SOFTWARE AG financial services are structured to work with your budget and scheduling needs. Our customized programs vary from simple, short-term rentals to multi-year Enterprise License Agreements. Each program allows you to smooth the financial impact of your technology investment.

Education Services

Hiring new people or retraining existing staff are frequently the options for businesses living with rapid change. SOFTWARE AG training adds value by helping you keep your current staff resources the people who really know your business while bringing them up to speed on new technologies.

SOFTWARE AG: Completing The Picture.

SOFTWARE AG constantly strives for stability and excellence in the information services industry, goals that are reflected in our many awards and achievements. The following are highlights from our history.

Corporate History

1969. SOFTWARE AG is founded in Darmstadt, Germany.

1972. SOFTWARE AG Americas is founded in Reston, Virginia as an independent distributor for SOFTWARE AG products in North America.

1974. SOFTWARE AG of the Far East is established in Japan.

1975. SOFTWARE AG Americas opens affiliates in Canada, Japan, Brazil and Argentina.

1993. Subsidiaries in Malaysia, Hong Kong, Singapore, and the Philippines form the basis

for successful business activity in other Asian markets, including China.

Product Milestones

1971. The ADABAS database management system is launched.

1979. SOFTWARE AG launches NATURAL, its fourth generation application development product.

1990. ENTIRE, SOFTWARE AG's infrastructure for open systems computing, is introduced.

1993. ADABAS out-performs Oracle in TPC Benchmark testing.

1994. SOFTWARE AG releases the first complete data warehouse solution.

1995. ADABAS D receives NIST certification for SQL.

Industry Awards

1991. ADABAS receives the highest user satisfaction ratings in ComputerWorld's Buyer's Scorecard for relational database management systems.

1992. Again, ADABAS receives the highest user satisfaction ratings in ComputerWorld's Buyer's Scorecard for relational database management systems.

1992. SOFTWARE AG's technical service and support center in Denver, Colorado wins the STAR Award for gains in service quality.

1994. ESPERANT, the new database query and reporting tool is introduced and chosen as Datamation Product of the Year.

1995. The ERTL Company, using a Data Warehouse solution from SOFTWARE AG, wins the RealWare Award for innovation.

SOFTWARE AG named one of Datamation's Global 100, Software Magazine's Top 100 Independent Software Vendors, and InformationWeek's Top 50 Software Vendors.

1995. The SOFTWARE AG data warehouse solution for the University of Minnesota wins the QUEST Award.

As part of our drive to assure our customers of competency in all strategic areas, SOFTWARE AG is constantly forging alliances with key vendors of products and services that complement our own strengths. Our growing list currently reflects strategic partnerships and alliances with many companies, such as:

Worldwide

Digital Equipment Corporation

Hewlett-Packard Company
IBM
Microsoft Corporation
NCR
SAP

United States

Andersen Consulting
Carleton
MicroStrategy
Price Waterhouse
SUN Microsystems, Inc.

User Application Examples

Mission: Save Lives.

The 911 emergency services team in San Antonio, Texas responds to calls for police, fire, and emergency medical services in the city and outlying areas. Until recently, coordination was done on a mainframe with a completely manual system used for backup when the mainframe was down for service. But when lives are at stake, 99% computer uptime isn't good enough. The City of San Antonio turned to SOFTWARE AG for a solution. We helped the City develop a fault-tolerant Computer-Aided Dispatch System (CADS) in NATURAL and port it to an AT&T client/server environment.

Result: With 100% uptime and the high speed and accuracy of the new CADS, San Antonio emergency teams have shaved 90 seconds (22%) off their response time. This can mean the difference between life and death.

Mission: Help Run A City

In the 1980s, the City of Cologne decided to decentralize the city government, then consisting of ten departments and 70 specialized support offices. There were several major concerns: to manage the decentralization project in the face of financial pressure; to maintain the traditionally high level of service to Cologne's citizens; and to create a system that would not only serve the city but that could also be marketed to the private sector in the future. City managers wanted a strategic information system that could store data from multiple departments and make it readily accessible to employees in many locations. SOFTWARE AG stepped in with a Open Data Warehouse System and integrated multiple legacy systems at multiple locations into a client/server environment Cologne's city-wide Strategic Information System.

Result: With data consolidated from all locations and easily accessible to planners, the City of Cologne has improved its services, managed increased housing demands, and successfully dealt with traffic congestion and a shortage of schools.

Mission: Ensure Happy Landings

Every second counts when you rely on 100,000 parts to get your passengers up and down safely and often have less than an hour in between flights to detect faults, then test and replace parts. And when 1.2 million lives a day depend on the results, there's no room for error. USAir relies on technology from SOFTWARE AG to check the status of 100,000 parts in a split second and transmits the information from the aircraft to the airline's central computer on the ground.

Result: With advance notification, the ground crew is in place with the right parts and material. Repairs are faster and more reliable so USAir passengers enjoy safer flights and very happy landings.

Mission: Make Child's Play Of Reengineering

Manufacturer of replica toys, models, and collectibles, the ERTL Company attributes its half century of success to keeping quality and customer service high and operating costs low. ERTL's recent strategy included re-engineering to replace legacy systems with newer applications, build a global network, and develop a platform-independent, integrated corporate application suite. The company began by building a data warehouse, using ADABAS as the underlying product and completing the transition without impacting end users. To develop new applications, ERTL selected NATURAL for its 5:1 productivity advantage over COBOL. And to interface their manufacturing resource planning system seamlessly with the new applications, ERTL used PRODIS, a customizable computer integrated manufacturing system shell from SOFTWARE AG.

Result: With the data warehouse making business-critical, decision support information easily available and the integrated application suite streamlining workflow end to end, ERTL expects to slash \$750,000 off annual overhead costs and to increase information access productivity 15%.

Mission: Uncap Overseas Markets

Pepsi-Cola General Bottlers Inc. (PCGB) is the largest of Pepsi-Cola's bottlers and a player in what some say is the world's most competitive business. In 1990, PCGB made the decision to migrate from a mainframe to a midframe environment and to implement centralized business processes supported from a single set of programs and files. PCGB developed its own enterprise methodology Open Batch Architecture using NATURAL, NATURAL CONSTRUCT and ADABAS to streamline code development. Developers used PREDICT to maintain a readily usable library for application objects. The result was PCGB's Enhanced Sales Information System (ESIS) which is capable of handling peak processing loads of 40 million commands per day. PCGB's major productivity improvement caught the attention of Pepsi International, who invited PCGB to provide a computing infrastructure for the joint distribution of Pepsi products in Poland. In less than four months, PCGB adapted ESIS and ported its sales and marketing applications to a new client/server architecture that better suited international requirements. Adaptations allow employees to deal easily with such issues as value-added taxes and different currencies. The addition of ESPERANT to the ESIS toolset enables overseas users to generate queries without

changing program and database structures.

Result: The Poland facility is a distribution center for other international markets. With Open Batch Architecture and ESIS in place, PCGB incorporates any operating system into the network transparently. Targeting the best operating system and hardware platform for each country gives Pepsi a cost-effective way to customize each operation.

Mission: Fight Child Support Payment Defaulters

On average, single-parent households collect only 14% of the child support dollars to which they are entitled. But thanks to a federal program initiated in 1988 to fund automation of child support systems, and help from SOFTWARE AG in partnership with Andersen Consulting, the state of Wyoming is changing that with POSSE. POSSE, (Parental Obligation System for Support) is the nation's first state-wide client/server child support database. POSSE's development team used object-oriented techniques to focus on reusability and maintainability of code. With this approach and the productivity gains achieved with NATURAL CONSTRUCT, SOFTWARE AG's model-based code generation tool, the team completed POSSE ahead of schedule and within budget.

Result: With POSSE, Wyoming's Child Support Enforcement Services plans to more than double its collections by 1997 and to collect more than \$200 million in past-due support good news for the families that count on these payments for their survival.

Mission: Rightsize For Dollar-wise Resource Use

Chase Manhattan Bank, Puerto Rico is committed to technological advancements and customer service. With a strategic decision to focus more on corporate banking products came the need to examine in-place technology for the ability to help Chase respond to the real-time needs of corporate clients. Chase's objectives were to increase productivity, improve responsiveness, and capitalize on new technology yet still preserve a recent five-year investment in customized mainframe applications. SOFTWARE AG's RATE (Rightsizing Analysis and Technology Evaluation) program, part of INSIGHT's rightsizing services, enabled Chase to align management and IS objectives, assess rightsizing opportunities, verify their feasibility, and plan the implementation to minimize risk and maximize results.

Result: Migrating SOFTWARE AG applications and data from the mainframe to a LAN-based workstation environment not only preserved but actually increased the value of Chase's five-year development effort.

Mission: Rebuild A National Economy

After the collapse of communism, the Czechoslovak government was eager to hasten the transition to a modern market economy. A "coupon privatization" program was conceived to enable citizens to buy coupons and later exchange them for shares in newly privatized companies. Podnik vypočetni techniky (PVT), the country's largest

computer development company, was tasked with implementing the organization and technical aspects of the operation. PVT came to SOFTWARE AG and Digital Equipment Corporation (DEC) for help. PVT's obsolete technology, the country's minimal communications infrastructure and the tight time frame made the project an enormous challenge some said an impossibility. Yet in less than six months, SOFTWARE AG and DEC had installed, networked and provided database software for 75 computer systems (integrating a total of 1,000 PCs) countrywide. The system, the largest and most modern data network in Czechoslovakia, has at its center ADABAS and the NATURAL 4GL application development environment.

Result: In less than one year, PVT opened 650 registration and information bureaus for coupon privatization nationwide, a giant stride for Czechoslovakia toward a modern market economy.

Mission: Make Campus Life More Student-Friendly

Faced with an increasingly competitive environment, the University of Delaware needed a way to attract and keep high-caliber students. Because of budget retrenchment, the university also needed to reduce overhead. The answer was to consolidate services (such as housing, registration, dining) into a single self-service system for its 22,000 students. This would simplify and reduce the time students spent taking care of campus "business" and reduce the need for administrative staff resources. Using programs written in NATURAL, the University of Delaware linked institutional data from their ADABAS system with the flexible Gopher and Mosaic Internet search tools to develop "U Discover," the school's client/server information system. In addition, a business process re-engineering consolidated student services previously managed by different departments into one secure but user-friendly self-service system. Now students, faculty, and staff can carry out an array of tasks (register, arrange housing and meals, access grades and transcripts, and gather financial aid information) from anywhere on campus and even from home.

Result: Student satisfaction is up and administrative costs are down. And in 1994, the University of Delaware received the Award for Excellence in Campus Networking from CAUSE, the association for managing and using information resources in higher education.

Mission: Rightsize And Bring Two Companies Together

Its 1993 merger acquisition of France's Office Commercial Pharmaceutique (OCP) gave Gehe AG, now the world's largest pharmaceuticals wholesaler, enormous synergy potential and opportunity for market expansion so long as it could successfully unite the cultures, organizations, operational procedures, and business systems of the formerly separate (and differently structured) companies. Since the mid 1980s, Gehe's regional offices had been using mainframe-based GAIN, an integrated software including ADABAS and NATURAL. This system automates Gehe's operations from order acceptance, through processing and inventory management. Gehe AG sees GAIN as the backbone of a structure to unite the differing requirements of Gehe and OCP. The time was right for migration of the information technology landscapes from

mainframes to the Unix client/server environment. Porting an application the size of GAIN to UNIX required a very structured approach. The Stuttgart branch of Gehe was chosen as the pilot site. Using SPIRIT and NATURAL for Windows, the SOFTWARE AG team conducted exhaustive analysis and benchmarking and then developed a three step strategy: first, to port individual applications to UNIX, leaving the databases on mainframes; second, to implement fully automatic order acceptance; and third, to migrate the databases to UNIX. Time to migration in the Stuttgart branch was one year.

Result: The system's performance and stability are entirely satisfactory and preparations are being made for rightsizing at the other German and French computer centers. Gehe is confident that porting GAIN to Unix is "the key to an improved price/performance ratio."

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File 9:Business & Industry(R) Jul 1994-1996/Dec 11
 (c) 1996 Resp. DB Svcs.
 File 15:ABI/INFORM(R) 1971-1996/Dec W2
 (c) 1996 UMI
 File 16:IAC PROMT(R) 1972-1996/Dec 10
 (c) 1996 Information Access Co.
 File 88:IAC BUSINESS A.R.T.S. 1976-1996/Dec
 (c) 1996 Information Access Co.
 File 148:IAC Trade & Industry Database 1976-1996/Dec 11
 (c) 1996 Info Access Co
 File 275:IAC(SM) Computer Database(TM) 1983-1996/Dec 11
 (c) 1996 Info Access Co
 File 621:IAC New Prod.Annou.(R) 1985-1996/Dec 11
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 (c) 1996 McGraw-Hill Companies Inc
 File 635:Business Dateline(R) 1985-1996/Dec W2
 (c) 1996 UMI
 File 636:IAC Newsletter DB(TM) 1987-1996/Dec 11
 (c) 1996 Information Access Co.
 File 484:Periodical Abstracts Plustext 1986-1996/Dec W2
 (c) 1996 UMI
 File 47:Magazine Database(TM) 1959-1996/Dec 11
 (c) 1996 INFORMATION ACCESS CO.
 File 647:CMP Computer Fulltext 1988-1996/Nov W2
 (c) 1996 CMP
 File 608:KR/T Bus.News. 1992-1996/Dec 11
 (c)1996 Knight-Ridder/Tribune Bus News
 File 746:Time Publications 1985-1996/Dec 09
 (c) 1996 Time Inc.

?ds

| Set | Items | Description |
|--------------------------------|---------|--|
| S1 | 5424 | SOFTWARE()AG |
| S2 | 1277266 | DISPATCH? OR SEND? OR SENT |
| S4 | 57323 | S2(5N) (VEHIC? OR AMBULANCE? OR TAXI? OR CAB? ? OR DELIVER? OR CONVEYANCE? OR CARRIER? OR TRANSPORT? OR AUTO? ? OR CAR? ? OR MOTORCAR? OR MOTOCAR? OR AUTOCAR? OR AUTOMOBILE? OR CRUISE- R? OR POLICE? OR TRUCK? OR FIRE? OR EMERGENCY) |
| S7 | 18 | S1(50N)S4 |
| S8 | 14 | RD S7 (unique items) |
| ?t8/3,k/all | | |
| 8/3,K/1 (Item 1 from file: 15) | | |

DIALOG(R)File 15:ABI/INFORM(R)
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94-44830

00795438

Amdahl users eye open systems strategy

Bozman, Jean S

Computerworld v27n49 PP: 67, 70 Dec 6, 1993

ISSN: 0010-4841 JRNL CODE: COW

AVAILABILITY: Fulltext online. Photocopy available from ABI/INFORM 6206.00

Article Ref. No.: B-COW-335-35

WORD COUNT: 764

...TEXT: tested Amdahl's UTS as a Unix server on the mainframe, and is working with *Software* *AG* of North America, Inc. to develop client/server applications for midrange Unix servers. The advantage of migration is cost: A *police* *dispatching* system that uses 20% of mainframe cycles is moving to two NCR Corp. 3450 Unix...

8/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/INFORM(R)
(c) 1996 UMI. All rts. reserv.

93-90028

00740807

Users give green light for replication

Eckerson, Wayne

Network World v10n29 PP: 23, 25 Jul 19, 1993

ISSN: 0887-7661 JRNL CODE: NWW

AVAILABILITY: Fulltext online. Photocopy available from ABI/INFORM 15222.01

Article Ref. No.: B-NWW-293-30

WORD COUNT: 820

...TEXT: is sufficient for backup and recovery functions.

The City of San Antonio, Texas, is using *Software* *AG* 's Entire Transaction Propagator to facilitate the downsizing of a 911 *emergency* *dispatch* application from an Amdahl Corp. mainframe to two NCR Corp. 3450 Unix processors. The dispatch...

8/3,K/3 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/INFORM(R)
(c) 1996 UMI. All rts. reserv.

93-64422

00715201

Network holds sway on life, death

Radosevich, Lynda

Computerworld v27n21 PP: 57, 62 May 24, 1993

ISSN: 0010-4841 JRNL CODE: COW

AVAILABILITY: Fulltext online. Photocopy available from ABI/INFORM 6206.00

Article Ref. No.: B-COW-307-43

WORD COUNT: 817

...TEXT: Based on trends such as traffic patterns and current data such as road construction, the *dispatcher* can route the *vehicles* the shortest way.

SOFTWARE PICKS

The software supporting the *emergency* *dispatch* systems was written in

Natural programming language by *Software* *AG* of North America in Reston, Va. The database structure is *Software* *AG*'s Adabas database management system. The city chose Adabas because it operates on the mainframe...

8/3,K/4 (Item 1 from file: 16)
DIALOG(R)File 16:IAC PROMT(R)
(c) 1996 Information Access Co. All rts. reserv.

04804595
Users Build For Speed

InformationWEEK November 22, 1993 p. 46
ISSN: 8750-6874
FULL TEXT AVAILABLE IN FORMAT 7 OR 9 WORD COUNT: 416

...director.
Mainframe applications development had to be easily portable to a new client-server 911 *dispatch* system. *Emergency* personnel connect to the system via mobile terminals. When the city contracted *Software* *AG* to codevelop the MVS-based 911 system in 1991, it required the vendor to develop...

8/3,K/5 (Item 2 from file: 16)
DIALOG(R)File 16:IAC PROMT(R)
(c) 1996 Information Access Co. All rts. reserv.

04200474
Software AG Adds Update Ware

CommunicationsWeek December 7, 1992 p. 4
ISSN: 0746-8121
FULL TEXT AVAILABLE IN FORMAT 7 OR 9 WORD COUNT: 422

... when service is restored, according to Michael Schiff, director of the data management program for *Software* *AG*, based here.
The city of San Antonio has been testing the Transaction Propagator and plans to use it in moving a *police*, *fire* and *emergency* medical services *dispatching* application from a mainframe to a Unix-based network, according to James Bischoffberger, technical services...

... data, which enables emergency personnel to respond to the right location, will stay on a *Software* *AG* Adabas central database, he said.
A copy of the data will run on an Adabas...

8/3,K/6 (Item 3 from file: 16)
DIALOG(R)File 16:IAC PROMT(R)
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03641243
EWS in the works: Windows-based package to run UNIX, OS/2

Computer Reseller News February 10, 1992 p. 66
ISSN: 0893-8377
FULL TEXT AVAILABLE IN FORMAT 7 OR 9 WORD COUNT: 414

... Natural Geographic, a geographic data management system targeted at applications such as selective marketing, service *dispatch* and *delivery*

, site location, and resource allocation. Pricing structure for the product is \$175,000 to \$325,000 for the server, depending on the processor size, and \$12,000 per workstation.

Software *AG*, which has locations in Reston, VA., and Darmstadt, Germany, recently initiated a product warranty guaranteeing...

8/3,K/7 (Item 4 from file: 16)
DIALOG(R)File 16:IAC PROMT(R)
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03620470
Managing Distributed Nets

UNIX Today February 3, 1992 p. 50

ISSN: 1040-5038

FULL TEXT AVAILABLE IN FORMAT 7 OR 9 WORD COUNT: 1025

... The future 100-megabit-per-second FDDI network will speed up the city's new *emergency* *dispatch* application, which it is co-developing with *Software* *AG*. The new application, which will serve city police, fire and emergency medical technicians, will be...

8/3,K/8 (Item 1 from file: 88)
DIALOG(R)File 88:IAC BUSINESS A.R.T.S.
(c) 1996 Information Access Co. All rts. reserv.

03175831 SUPPLIER NUMBER: 13784523 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Distributed DBMSs move into the trenches. (database management systems)
(includes related article on new products from Computer Associates International Inc.)

Ricciuti, Mike

Datamation, v39, n8, p59(4)

April 15, 1993

ISSN: 1062-8363

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2559 LINE COUNT: 00223

... Propagator logs the nonresponding DBMS's identification and sends the update at a later time.

Software *AG* says the product will be most useful in corporate decision support systems that need data extracts from larger databases for reporting and forecasting.

The City of San Antonio is testing *Software* *AG*'s Transaction Propagator on a new *police*, *fire* and *ambulance* *dispatch* system. Frank Stromboe, director of Is for the city, says the product will be used

8/3,K/9 (Item 1 from file: 148)
DIALOG(R)File 148:IAC Trade & Industry Database
(c) 1996 Info Access Co. All rts. reserv.

06196311 SUPPLIER NUMBER: 12791671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
City of San Antonio revamps emergency dispatch system; Unix platform provides bulletproof operation for community lifeline to police and fire departments. (part of a special section on open systems in large enterprises)

Karon, Paul

InfoWorld, v14, n38, pS78(1)

Sept 21, 1992
ISSN: 0199-6649
WORD COUNT: 1452

LANGUAGE: ENGLISH
LINE COUNT: 00112

RECORD TYPE: FULLTEXT; ABSTRACT

...ABSTRACT: encompasses the existing heterogeneous hardware base, which ranges from a mainframe to 400 PCs. The *dispatch* system includes *police*, *fire* and *emergency* medical operations and must operate continuously without interruption. The IS department contracted with *Software* *AG* of North America (Reston, VA), which already provides the city's data base management and...

8/3,K/10 (Item 1 from file: 275)
DIALOG(R)File 275:IAC(SM) Computer Database(TM)
(c) 1996 Info Access Co. All rts. reserv.

01551699 SUPPLIER NUMBER: 13073855 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Client/server saves lives in San Antonio. (City of San Antonio, TX, emergency services)(case study) (Downsizing Upsizing Rightsizing) (Cover Story)

Brownstein, Mark
DBMS, v5, n13, p64(2)
Dec, 1992

DOCUMENT TYPE: Cover Story ISSN: 1041-5173 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 828 LINE COUNT: 00064

The city relies on its computer-aided dispatch system to *dispatch* and track all *police*, *fire*, and Emergency Medical Service (EMS) vehicles and emergency services activities. "Our current system was written 12 years ago in CICS and COBOL, and uses ADABAS (a database product from *Software* *AG*), but is reaching the point where it is not state of the art," says Frank...

8/3,K/11 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 1996 CMP. All rts. reserv.

00536650 CMP ACCESSION NUMBER: IWK19931122S0580
Users Build For Speed (SIDEBAR)
L.W.
INFORMATIONWEEK, 1993, n 452, 38
PUBLICATION DATE: 931122
JOURNAL CODE: IWK LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: CLIENT SERVER
WORD COUNT: 416

... director.
Mainframe applications development had to be easily portable to a new client-server 911 *dispatch* system. *Emergency* personnel connect to the system via mobile terminals. When the city contracted *Software* *AG* to codevelop the MVS-based 911 system in 1991, it required the vendor to develop...

8/3,K/12 (Item 2 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 1996 CMP. All rts. reserv.

00520116 CMP ACCESSION NUMBER: CRN19920210S4282
EWS in the works - Windows-based package to run UNIX, OS/2
BARBARA JARVIE
COMPUTER RESELLER NEWS, 1992, n 459, 66
PUBLICATION DATE: 920210
JOURNAL CODE: CRN LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: software industry
WORD COUNT: 432

... Natural Geographic, a geographic data management system targeted at applications such as selective marketing, service *dispatch* and *delivery*, site location, and resource allocation. Pricing structure for the product is \$175,000 to \$325,000 for the server, depending on the processor size, and \$12,000 per workstation.
Software *AG*, which has locations in Reston, Va., and Darmstadt, Germany, recently initiated a product warranty guaranteeing...

8/3,K/13 (Item 3 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 1996 CMP. All rts. reserv.

00519661 CMP ACCESSION NUMBER: UNX19920203S3824
Managing Distributed Nets - Users Mix Old And New Technology In An Effort
To Streamline Network Tracking
KELLY JACKSON HIGGINS
UNIX TODAY , 1992, n 090, 50
PUBLICATION DATE: 920203
JOURNAL CODE: UNX LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: user strategies
WORD COUNT: 1073

... The future 100-megabit-per-second FDDI network will speed up the city's new *emergency* *dispatch* application, which it is co-developing with *Software* *AG*. The new application, which will serve city police, fire and emergency medical technicians, will be...

8/3,K/14 (Item 4 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 1996 CMP. All rts. reserv.

00513563 CMP ACCESSION NUMBER: CWK19921207S0265
Distributed databases - Software AG Adds Update Ware
JOHN COX
COMMUNICATIONSWEEK, 1992, n 432, 4
PUBLICATION DATE: 921207
JOURNAL CODE: CWK LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: NEWS
WORD COUNT: 457

... when service is restored, according to Michael Schiff, director of the data management program for *Software* *AG*, based here.
The city of San Antonio has been testing the Transaction Propagator and plans to use it in moving a *police*, *fire* and *emergency* medical services *dispatching* application from a mainframe to a Unix-based

network, according to James Bischoffberger, technical services...

...data, which enables emergency personnel to respond to the right location, will stay on a *Software* *AG* Adabas central database, he said. A copy of the data will run on an Adabas...
?

File 237:Buyer's Guide to Micro Software(SOFT) 1993/Sep
(c) 1993 ONLINE Inc.
File 256:SoftBase:Reviews,Companies&Prods. 95-1996/Oct
(c)1996 Info.Sources Inc
File 278:Microcomputer Software Guide 1996/Nov
(c) 1996 Reed Elsevier Inc.
File 751:Dapapro Software Directory 1996/Nov
(c) 1996 McGraw-Hill, Inc.

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| Set | Items | Description |
|-----|-------|----------------------------|
| S1 | 183 | SOFTWARE()AG |
| S2 | 5311 | DISPATCH? OR SEND? OR SENT |
| S3 | 6 | S1 AND S2 |

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?t3/7/all

3/7/1 (Item 1 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00092519 DOCUMENT TYPE: Review

PRODUCT NAMES: ENTIRE BROKER (461873)

TITLE: Entire Broker APPC Middleware

AUTHOR: Boyle, Pat

SOURCE: Data Management Review (DMR), v6 n6 p25(1) Jun 1996 1066-5498

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

Software *AG*'s ENTIRE BROKER APPC Middleware application is assessed by a user at a fuel distribution corporation. The company implements ENTIRE BROKER APPC in an MVS/CICS environment. OS/2 servers are attached to local and remote PC clients to *dispatch* emergency repair vehicles. The system relies on 3270 terminal emulation for transmission to the (IBM) mainframe. ENTIRE BROKER APPC is praised for its real-time deployment capabilities as well as for its cost-effective functionality between heterogeneous environments. Noteworthy characteristics of this product include ease of installation, multithreading, and support for unlimited 'virtual servers.' The reliability and stability of the system are also cited.

REVISION DATE: 961120

3/7/2 (Item 2 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00050734 DOCUMENT TYPE: Review

PRODUCT NAMES: ADABAS (902160); NATURAL 4GL (260991)

TITLE: Network Holds Sway on Life, Death

AUTHOR: Radosevich, Lynda

SOURCE: Computerworld, v27 n21 p57(2) May 24, 1993 0010-4841

HOME PAGE: <http://www.computerworld.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

A Texas city uses a client/server system based on an Adabas host programmed with the Natural language to process emergency calls and data. Emergency personnel arrive 22.5 percent more quickly at the accident scene. The system *dispatches* the emergency vehicle closest to the accident site, using traffic pattern information and detailed street guides. The guides are reprinted regularly from an up-to-date database. The city's new computer-assisted *dispatch* system (CADS) is the end result of a two-year project that reconfigured the city's mainframe system so that it can incrementally port the workload to a UNIX-based network of PCs and servers. Calls go from the *dispatcher* at a desktop PC over a two-way, customer owned, Motorola wireless network. Connections to 250 remote sites are accomplished with frame-relay services. No modem connections are necessary, the system performs well consistently, and costs are about 20 percent less than those of standard communications methods.

REVISION DATE: 950725

3/7/3 (Item 3 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)1996 Info.Sources Inc. All rts. reserv.

00045917 DOCUMENT TYPE: Review

PRODUCT NAMES: ENTIRE NET-WORK (430943)

TITLE: Middleware eases app development
AUTHOR: Anthes, Gary H.
SOURCE: Computerworld, v27 n1 p113(2) Dec 28, 1992 0010-4841
HOMEPAGE: <http://www.computerworld.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

Middleware lets an application talk to a network and get information back without the user having to know anything about protocols or network technology. The middleware knows what protocol to use and how to make different platforms communicate. 'Enabling technologies' such as middleware are expected to soar, with a market that will go from \$50 million this year to over \$1.2 billion by 2000. One instance of middleware use is the Center for Disease Control, which installed Entire NetWork from *Software* *AG* of North America. What used to be a time-consuming and error-prone operation that broke down when anything changed is now an easy flowing system where users *send* questions out and get answers back.

REVISION DATE: 950725

3/7/4 (Item 4 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00045497 DOCUMENT TYPE: Review

PRODUCT NAMES: NATURAL 4GL (260991); ENTIRE TRANSACTION PROPAGATOR

(429643); ADABAS (902100); UNIX (902339); DynaComm (900171)

TITLE: A City's Ascent To Openness

AUTHOR: Faden, Mike

SOURCE: Open Systems Today, v110 p49(2) Nov 2, 1992 1061-0839

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Emergency medical services, police, and fire *dispatch* personnel in San Antonio, Texas, react to emergencies with the support of a UNIX *dispatch* system, developed using Natural 4GL and Adabas. The *Software* *AG* development tools were chosen because the city's IS group is expert in their use on the mainframe. If a major problem disables both planned supporting hardware systems, AT&T/NCR four-processor 3450s, the system can be offloaded to an Amdahl mainframe. The Entire Transaction Propagator product updates 3450 files when the mainframe file is modified. About 25 percent of the Amdahl mainframe load is from the *dispatch* system, but the plan to port it to UNIX servers will result in cost savings, according to the San Antonio director of information services. The system is set in motion when a caller calls 911, which *sends* the message to the AT&T/NCR 3450. The data then goes via OSI EtherNet to a call taker, *dispatcher*, or supervisor.

REVISION DATE: 960118

3/7/5 (Item 5 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00045423 DOCUMENT TYPE: Review

PRODUCT NAMES: ENTIRE TRANSACTION PROPAGATOR (429643)

TITLE: *Software* *AG* tool mirrors Adabas across networks

AUTHOR: Anthes, Gary H.

SOURCE: Computerworld, v26 n47 p4(1) Nov 23, 1992 0010-4841

HOME PAGE: <http://www.computerworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Software *AG*'s Entire Transaction Propagator will automatically replicate Adabas transactions across networks of dissimilar computers. It will *send* updates from the Adabas database management system, at pre-determined intervals, from the mainframe to remote databases running on either other mainframes, or to UNIX, OS/2, or VAX/VMS platforms. The product is designed for applications where parts of a mainframe database must be duplicated at other sites but where absolute synchronization is not necessary. This accounts for the majority of transactions, and eliminates across-the-board downtime when a single node is down.

REVISION DATE: 950725

3/7/6 (Item 6 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00044412 DOCUMENT TYPE: Review

PRODUCT NAMES: NATURAL 4GL (260991); DynaComm (900171); Microsoft Windows (900172)

TITLE: Client/Server Saves Lives in San Antonio
AUTHOR: Brownstein, Mark
SOURCE: DBMS, v5 n13 p64(2) Dec 1992 1041-5173
HOMEPAGE: <http://www.dbmsmag.com>

RECORD TYPE: Review
REVIEW TYPE: Product Comparison
GRADE: Product Comparison, No Rating

A large southwestern city has migrated its computer-aided *dispatch* system from a mainframe to large UNIX system with 386 workstations in order to achieve a faster, expandable, and more cost-efficient system. They used Natural, a fourth-generation language for ADABAS, to rewrite their mainframe ADABAS data systems. The Dynacomm telecommunications product provides simultaneous support for eighteen *dispatchers*, twenty-four call-takers, and eight supervisors. The mainframe system has been kept as a source of emergency backup. They have taken advantage of PC applications and the new functionality of Windows and Dynacomm. The Emergency Medical Services module has already saved lives by determining the best route for units *sent* to emergencies and flexibly assigning the closest units.

REVISION DATE: 960330

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File 347:JAPIO OCT 1976-1996/Jul.
(c) JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-1996/Dec W1
(c) 1996 European Patent Office

File 350:Derwent World Pat. 1963-1980/UD=9648
(c) 1996 Derwent Info Ltd

File 351:DERWENT WPI 1981-1996/UD=9649;UA=9646;UM=9638
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| Set | Items | Description |
|-----|-------|------------------|
| S1 | 1 | CO="SOFTWARE AG" |
| S2 | 3 | PA="SOFTWARE AG" |
| S3 | 3 | S1 OR S2 |

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?t3/6/all

3/6/1 (Item 1 from file: 348)
00594069

Cooperative processing interface and communication broker for
heterogeneous computing environments.
LANGUAGE (Publication,Procedural,Application): English; English; English
WORD COUNT: 121

3/6/2 (Item 1 from file: 351)
010443433 WPI Acc No: 95-344752/44
XRPX Acc No: N95-257636 *Image available*

Database query system for forming semantically correct queries - uses
query expert system to monitor structure of query and prevent user from
building semantically incorrect queries

3/6/3 (Item 2 from file: 351)
009909903 WPI Acc No: 94-177609/22
XRPX Acc No: N94-139894

Messaging system e.g. computer LAN having cooperative processing
interface - has service broker managing service requests from client to
server, and supports three modes of data transfer i.e.
store-and-forward message processing, conversation, and remote
procedure call; ELECTRONIC MAIL

?

t3/9/1,3

3/9/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 1996 European Patent Office. All rts. reserv.

00594069
Cooperative processing interface and communication broker for
heterogeneous computing environments.

PATENT ASSIGNEE:

****SOFTWARE AG****, (1710380), , Darmstadt, (DE), (applicant designated
states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE

AUTHOR (Inventor):

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Ejtemai-Jandahi, Omid, Troyesstrasse 50, D-64297 Darmstadt, (DE)

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Forstenrieder Allee 59, D-81476 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 600235 A1 940608 (Basic)
APPLICATION (CC, No, Date): EP 93117599 931029;
PRIORITY DATA (CC, No, Date): US 969722 921030
LANGUAGE (Publication, Procedural, Application): English; English; English
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE
INTL PAT CLASS: H04L-029/06;
WORD COUNT: 121

ABSTRACT: EP 600235 A1
An object interface is disclosed that supports three modes of inter-object communication -- message processing (store and forward), conversational communication, and remote procedure call. A service broker manages service requests from, and responsive services provided by, a plurality of clients and servers, respectively, which may reside on different hardware platforms and operating systems and may be connected to computer networks having different network architectures and associated communications protocols. The broker manages the service offerings from servers and service requests from clients, and clients and servers communicate and exchange information with one another via the broker. The service broker includes different application programming interfaces for allowing participants to access the functionality of the service broker. (see image in original document)

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application: 940608 A1 Published application (A1withSR;A2withoutSR)
Examination: 940907 A1 Date of filing of request for examination:
940708

3/9/3 (Item 2 from file: 351)
DIALOG(R) File 351:DERWENT WPI
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009909903 WPI Acc No: 94-177609/22
XRPX Acc No: N94-139894

Messaging system e.g. computer LAN having cooperative processing interface - has service broker managing service requests from client to server, and supports three modes of data transfer i.e. store-and-forward message processing, conversation, and remote procedure call; ELECTRONIC MAIL

Index Terms: SYSTEM COMPUTER LAN COOPERATE PROCESS INTERFACE SERVICE MANAGE
SERVICE REQUEST CLIENT SERVE SUPPORT THREE MODE DATA TRANSFER STORAGE
FORWARD MESSAGE PROCESS CONVERSATION REMOTE PROCEDURE CALL

Patent Assignee: SOFT-) ****SOFTWARE AG****

Author (Inventor): EJTEMAI-JANDAGHI O; GRAHAM KENNEDY T; PAGE P; WARNS R;
EJTEMAI-JANDAGHI O; KENNEDY T G

Number of Patents: 002

Number of Countries: 018

Patent Family:

| Patent No | Kind | Date | Week | Applic No | Date | LA | Pages | IPC | |
|------------|------|--------|------|-------------|--------|-----|-------|-------------|-----|
| EP 600235 | A1 | 940608 | 9422 | EP 93117599 | 931029 | Eng | 89 | H04L-029/06 | (B) |
| US 5329619 | A | 940712 | 9427 | US 969722 | 921030 | | 61 | G06F-013/00 | |

Priority Data (CC No Date): US 969722 (921030)

Applications (CC, No, Date): EP 93117599 (931029)

Language: English

EP and/or WO Cited Patents: EP 384339; US 5109515

Designated States
(Regional): AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT
; SE

Abstract (Basic): EP 600235 A

The communication system for managing message communications among elements of a computing system, such elements including a server residing on a second computer, both computers being heterogenous. Messages are transferred between the two units, with the client requesting a service from the server.

A protocol independent transport layer has a low level application programming interface (LAPI), via which messages are accepted, and communicates via a network protocol. A service broker receives the service request from the client, and determines if the service provided matches the request before transmitting it. The service broker includes a device for storing and forwarding the messages to provide asynchronous communication between the client and the server.

ADVANTAGE - Service broker includes different application programming interfaces. Transparent communication across networks, and reliable data delivery.

Dwg.7G/23

Abstract (US): 9427 US 5329619 A

The interface supports three modes of inter-object communication-message processing (store and forward), conversational communication, and remote procedure call. A service broker manages service requests from, and responsive services provided by, a number of clients and servers, respectively, which may reside on different hardware platforms and operating systems and may be connected to computer networks having different network architectures and associated communications protocols.

The broker manages the service offerings from servers and service requests from clients, and clients and servers communicate and exchange information with one another via the broker. The service broker includes different application programming interfaces for allowing participants to access the functionality of the service broker.

USE/ADVANTAGE - As service broker for clients and servers operating in heterogenous computing environment, such e.g. LAN or WAN. Provision for store-and-forward message processing, conversational program-to-program communication and remote procedure calls. Also system supports communication between applications independent operating system, hardware, network/communication protocol and programming language.

Dwg.8/23

File Segment: EPI

Derwent Class: W01;

Int Pat Class: G06F-013/00; H04L-029/06

Manual Codes (EPI/S-X): W01-A06E; W01-A06F; W01-A06G2; W01-A06G3

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File 35:Dissertation Abstracts Online1861-1996/Dec
(c) 1996 UMI

File 202:Information Science Abs. 1966-1996/Nov
(c) 1996 IFI/Plenum Data Corp.

File 233:Microcomputer Abstracts 1974-1996/Nov
(c) 1996 Information Today Incl.

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| Set | Items | Description |
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| S1 | 56 | SOFTWARE()AG |
| S2 | 14075 | DISPATCH? OR SEND? OR SENT |
| S3 | 1 | S1 AND S2 |

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3/6/1 (Item 1 from file: 233)

0315645 93DM06-008

Replicating data -- How to increase availability, reduce communications costs, and improve database performance by creating and deploying copies of
...

File 2:INSPEC 1969-1996/Dec W1
 (c) 1996 Institution of Electrical Engineers
 File 6:NTIS 64-1997Jan W3
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 File 108:Aerospace Database 1962-1996/Dec
 (c) 1996 AIAA
 File 144:Pascal 1973-1996/Nov
 (c) 1996 INIST/CNRS
 File 434:Scisearch(R) Cited Ref Sci 1974-1996/Nov W4
 (c) 1996 Inst for Sci Info
 File 752:Dapapro Product Specifications1996/Aug
 (c) 1996 McGraw-Hill, Inc.
 File 603:Newspaper Abstracts 1984-1988
 (c) 1989 UMI

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| Set | Items | Description |
|-----|-------|----------------------------|
| S1 | 77 | SOFTWARE()AG |
| S2 | 73565 | DISPATCH? OR SEND? OR SENT |
| S3 | 0 | S1 AND S2 |
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VALID

Pat. No. 05835376 - 4
Issue Date: 11/10/98

Group ID: C
User ID: 0733AY KS: 1,452

Page 1

Warning [US Reference: Page:1 Posn:8]
has an issue date that does not match the patent number

Warning [Pages Of Foreign References:]

page 1 has no references

page 2 has no references

page 3 has no references

Warning [Pages Of Other References:]

page 2 has no references

page 3 has no references



(FILE 'USPAT' ENTERED AT 11:09:37 ON 11 DEC 96)

E 5122959/UREF

L1 9 S E3
L2 2860 S 364/400,401R,406,467,436,424.01,449,444,460/CCLS
L3 537 S 342/357,457/CCLS
L4 408 S 340/989,990,992/CCLS
L5 3418 S L2 OR L3 OR L4
L6 511 S VEHICLE#(P)DISPATCH?
L7 3941 S BILLING
L8 4 S L6(P)L7
L9 25 S (L6 AND L7) NOT L8
L10 95 S L5 AND L6
L11 84 S L10 NOT (L9 OR L8 OR L1)
SAVE A549380/L ALL
L12 319 S L7(P)(VEHICLE# OR AMBULANCE# OR TRANSPORT?)
L13 25 S L5 AND L12
L14 18 S L13 NOT (L10)
L15 42 S DISPATCH?(P)AMBULANCE#
L16 35 S L15 NOT (L10 OR L14)
L17 34 S L16 NOT L9
L18 6 S AMBULANCE#(P)L7

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Products



Natural Product Overview

Announcing NATURAL 2.2 for UNIX!

Application Engineering

The NATURAL family is a comprehensive client/server application development environment that dramatically increases productivity as it relates to software design, development and deployment. It supports rapid application development (RAD), computer-aided software engineering (CASE), and multiple third-party RDBMS environments. NATURAL applications are portable, scalable and interoperable across multiple computing platforms ranging from the desktop to the mainframe. Now NATURAL LightStorm can add to your productivity by developing enterprise-ready applications through a point-and-click interface.

NATURAL is a fourth generation language (4GL) that provides application transparency across database, hardware and network protocols. It enables developers to achieve the highest levels of productivity while building truly portable and scalable client/server applications. With NATURAL, developers can create all the components of an application including state-of-the-art event-driven integration and high performance server components.

NATURAL FRS is an integrated accounting application designed to support both centralized and decentralized functions. NATURAL FRS can run in a multi-campus and multi-fiscal year environment on one database, and the number of fiscal years that can remain on-line for user inquiry is limitless.

PREDICT is an integrated data dictionary and operational repository that simplifies the process of application development by documenting and supporting technical design, implementation, and maintenance of databases and applications.

NATURAL CONSTRUCT is a framework-based application generator that builds complete application components from high level user repository specifications.

NATURAL ENGINEERING WORKBENCH (NEW) is a PC-based diagram tool that assists programmers with business modeling and requirements analysis. It takes advantage of industry standards for both process and data modeling. Combined with other NATURAL components, NEW provides complete integrated support across the development life cycle.

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ADABAS Product Information

Data Management

Database technology has been one of SOFTWARE AG's core competence areas since the release of ADABAS in 1971. Since that time, it has evolved into a family of servers and "add-on" technologies that combine functionality and advanced data management capabilities across multiple platforms. SOFTWARE AG has a complete range of data management products that satisfy your diverse corporate computing requirements.

ADABAS C

ADABAS C is a high-performance multi-threaded database management system. It offers complete interoperability, scalability, and portability across desktop, LAN, UNIX, mid-range and mainframe environments. With ADABAS C, a single application can access data distributed across multiple, heterogeneous platforms.

ENTIRE Transaction Propagator, in conjunction with ADABAS C, delivers the synchronous controlled replication required in distributing subsets of a centralized master file for local data processing needs.

ADABAS SQL Server is a fully compliant SQL interface to ADABAS C. It delivers SQL functionality to the most highly rated, reliable and high-performance DBMS available on high-end systems today.

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Hot News About ADABAS D

- ADABAS D on Linux
- Highest Performance for SAP's R/3 SD Benchmark

ADABAS D Overview

Table of Contents:

- ADABAS D Overview
 - Highlights
 - ADABAS D Differentiators
 - ADABAS D Technical Specifications
-

ADABAS D Overview

ADABAS D is Software AG's flagship relational database management system. The product is designed to be the most appropriate RDBMS engine for user-centric computing.

Relational technology is certainly not new. First developed in the early 1970s, commercial relational products have been available since 1979. Computing has changed a great deal since then. While all relational products have become capable of supporting large mainstream applications, most of these products remain complex and challenging to administer. ADABAS D is the only full-function implementation that is designed for today's flexible, fast-moving, user-based computing environment.

The successful DBMS must support change and diversity in platforms, operating systems, access tools, query tools, application development tools, and implementation styles. The DBMS should also be simple to operate and maintain. Users are often capable of implementing and maintaining their own systems. The need for constant monitoring and tuning of the DBMS should be a thing of the past.

Scalability is a major issue. A DBMS should be able to accommodate users as business needs dictate. Cost scalability is a major issue that is rarely considered. The costs of adding new users or required functionality should also be predictable. For instance, connecting clients to a server requires a network connection. Is the connection included with the DBMS or is it a separate, cost-added option. What about replication? What about distribution? The list of possible "option" charges is almost endless.

Systems that start small can grow very quickly. Without predictable costs the inexpensive small system can easily become the horrendously expensive large system. Support and administration are also major factors here. Many vendors now offer "workgroup" products. History shows that many applications that

start at the workgroup level quickly expand to large implementations. If you grow out of your "workgroup" product, what happens to your cost (both product and support) when you move to the "enterprise" DBMS version?

ADABAS D addresses these issues directly.

- Multiple interfaces support open, dynamic computing environments
 - Oracle 7 SQL
 - DB2 V3 SQL
 - ANSI SQL
 - Native SQL with extensions
 - ODBC
- ADABASIC trigger and stored procedure language simplifies things for business users.
- Multiple platform and operating system support
 - UNIX
 - Windows NT (Intel)
 - OS/2
 - Windows 95
- Minimal maintenance requirements makes ADABAS D tops for user-centric computing.
- Scalable performance from uniprocessors to large-scale SMP machines.
- Rational packaging ensures predictable costs as applications scale up.
- - Basic product includes:
 - - Network connectivity for clients
 - Multiple SQL interfaces
 - Triggers
 - Stored procedures
 - Distribution
 - - Fully distributed DBMS with distributed referential integrity
 - Replication
 - SQL precompilers for C, C++, COBOL
 - Simple user query & access tools
 - DBMS maintenance utilities
- ADABAS D is the price leader among full-function relational DBMS products.
- - \$2,500/Server + \$150/client on NT or any supported UNIX
 - - \$400 for single user version
 - \$1,250/Server + \$150/client on OS/2
 - - \$400 for single user version
 - Windows 95

ADABAS D is the only DBMS specifically designed to support and enhance today's computing -

flexible, open, inexpensive, and simple.

Return to the top of this page

ADABAS D Product Highlights

Locking - ADABAS D supports both standard locking (row-level with selectable escalation) and optimistic locking. Optimistic locking can have major advantages, depending on implementation strategy and application requirements. Programmatic locking is also supported.

Standards - ADABAS D is fully NIST certified. ODBC is built into the DBMS kernel to ensure excellent performance and consistency.

Availability - The combination of low maintenance, on-line backup, and no need for DBMS reorganizations greatly expands the availability of the DBMS.

Quality + Support - ADABAS D is a high quality product supported by Software AG's award-winning Software Support organization. Software AG is a Top 20 worldwide software vendor and we have an enviable track record in the support of mission-critical systems.

Portability - The ability to run across leading desktop, UNIX, OS/2, and NT environments allows the you to pick the environment that is most appropriate for the task at hand.

Openness - ADABAS D supports its own native SQL with extensions. We recognize that the world is bigger than one vendor. Hence, ADABAS D also supports Oracle 7 SQL, Oracle OCI, DB2 V3 SQL, ANSI SQL, and ODBC. This is ultimate investment protection and flexibility.

Scalability - The ADABAS D multithreaded, multitasking architecture allows for smooth scaling. You can start with a few users and scale to hundreds with no performance or cost "shocks." ADABAS D scales from single-user systems to large, powerful SMP systems (like Digital's Alpha VLM64) ADABAS D. The scalability of ADABAS D is attested to by the hundreds of SAP R/3 sites running the ADABAS D RDBMS.

Distributed DBMS - ADABAS D can function as a fully distributed peer-to-peer implementation. One of the key problems in computing environments is the mis-match between the way people work and the way the DBMS works. People and organizations generally function in a peer-to-peer arrangement. People talk to people and divisions/departments talk to other divisions/departments. Meanwhile, most DBMSs communicate only in the client/server paradigm, allowing only a top-down replication or distribution scheme. This top-down organization is typically incompatible with peer-to-peer organization. ADABAS D allows the distributed DBMS to be viewed as one logical DBMS to all users. DBMS changes to one local DBMS are automatically updated to all the global schema. The distributed ADABAS D can respond quickly, just as the organization must.

Packaging - The DBMS engine is the "tip-of-the-iceberg" in terms of implementing a relational system. ADABAS D packaging is complete. The base product includes network connectivity, SQL, replication,

distribution, pre-compilers, ODBC, and even basic access and query tools. This reinforces the predictable costs of ADABAS D. There are no "options" that can escalate the cost. There is only one full-function version of ADABAS D. It's the same on the desktop, in the workgroup, or for the enterprise. No "workgroup version-to-enterprise version" upgrades.

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ADABAS D Differentiators

ADABAS D is Software AG's fully relational database management system. In a market crowded with RDBMSs, most products, including ADABAS D, have a great many common features:

- Triggers
- Stored procedures
- SQL support
- Network support
- Replication
- Distribution

ADABAS D differentiates itself in the following areas:

1. **Ease-of-use**
2.
 - No need for database reorganizations
 - Minimal maintenance requirements
 - ADABASIC language for triggers and stored procedures
3. **Distributed database capability**
4.
 - Implementable as a fully distributed DBMS across multiple machines
 - Distributed optimization is included
 - Distributed referential integrity is included
5. **Openness**
6. Supports ADABAS D native SQL as well as:
 - Oracle 7 SQL
 - DB2 V3 SQL
 - ANSI SQL
 - ODBC (built into the DBMS kernel)
7. **Packaging/Business scalability**
8. Standard product includes:
 - Scalable SMP performance
 - Optimistic and hard locking
 - Cursor support - backward and forward scrolling
 - Multiple SQL support (as above)

- Multithreaded, multitasking server
- Cost-based query optimization
- Row-level locking, selectable lock escalation
- Declarative referential integrity
- Triggers
- Stored procedures
- Network connectivity
- Transparent two-phase commit
- Replication
- Distribution
- - Distributed transactions
 - Distributed, optimized queries
 - Distributed referential integrity
- Pre-compilers (C, C++, COBOL)
- DBMS maintenance utilities
- Simple access/query tools

9. U.S. Pricing

10. Windows NT & UNIX: \$2,500/server + \$150/user
 OS/2: \$1,250/server + \$150/user

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ADABAS D Technical Specifications

Platforms Supported

- Intel/Windows NT
- Windows 95
- OS/2
- UNIX
- - HP-UX 10.0
 - IBM RS/6000 AIX 4.1
 - Siemens-Nixdorf Sinix 5.4.2
 - Digital Unix 3.0
 - Digital VLM64
 - SunSPARC Solaris 2.3/2.4/2.5
 - Pyramid MI Server DC/OFx 5.4
 - SCO 5.3.2.4

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